Mark Alan Brewer

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CURRENT ACTIVITIES

Research Technician II (Lidar) JPL/Caltech 2013 – Present. Maintenance and optimization of the TMF lidar instrumentation. Maintenance and optimization of the balloon instrumentation. TMF Lidar and Balloon Launch Operations.

PAST RESEARCH

Consortium Undergraduate Research Experience (CURE) 2012 – 2013. Observe and measure Near Earth Objects (NEO), such as Asteroids/Comets with an Astro-Mechanics 0.6m, f/16 or 36 (coude focus) Ritchey-Chretien reflector on a German off-axis equatorial mount equipped with a 2K Spectral.

Minority Student Program (MSP) JPL/Caltech – Observe atmospheric disturbances with a 12-inch Meade LX200 Schmidt Cassegrain telescope equipped with a Solar Differential Image Motion Monitor and six element linear array scintillometers. Periodic measurements of particulate.

PUBLICATIONS

Hicks, M., M. Brewer, A. Carcione, S. Ebelhar, and R. Borlase. "Broadband Photometry of 11284 Belenus: A Large Low Delta-V Near-Earth Asteroid." SAO/NASA ADS. The Astronomer's Telegram, #4969, 1 Apr. 2013.

Hicks, M., M. Brewer, and J. Somers. "Broadband Photometry of 214869 (2007 PA8): A Slowly Rotating Potentially Hazardous Asteroid." SAO/NASA ADS. The Astronomer's Telegram, #4625, 1 Dec. 2012.

Hicks, M., D. Dombroski, and M. Brewer. "Broadband Photometry 330825 (2008 XE3): A Potential Binary Near-Earth Asteroid." SAO/NASA ADS. The Astronomer's Telegram, #4591, 1 Nov. 2012.

Hicks, M., M. Brewer, and J. Somers. "Broadband Photometry of the Near-Earth Asteroid 136993 (1998 ST49)." SAO/NASA ADS. The Astronomer's Telegram, #4588, 1 Nov. 2012.

EDUCATION

AS Math and Science (2009 – 2013), BS Applied Physics (2014 – Present).